

Turbomachine and turbine blade

Publication number: EP1186749

Publication date: 2002-03-13

Inventor: DIRAUF PETER (DE); KIEFER WOLFGANG (DE);
LEUZE ANDREAS (DE); MADL PETER (DE);
ROSENKRANZ JENS (DE)

Applicant: SIEMENS AG (DE)

Classification:


- international: *B08B17/06; F01D5/28; F01D25/00; F01D25/24;
F02C7/30; F04D29/38; F04D29/52; B08B17/00;
F01D5/28; F01D25/00; F01D25/24; F02C7/00;
F04D29/38; F04D29/40; (IPC1-7): F01D5/28; F02C7/30*

- european: B08B17/06; F01D5/28F; F01D25/00B; F02C7/30






Application number: EP20000119578 20000907

Priority number(s): EP20000119578 20000907

Also published as:

 WO0220949 (A1)

Cited documents:

 GB1253278
 WO0034651
 US4695229
 XP000925073
 XP000873084
more >>

[Report a data error here](#)

Abstract of **EP1186749**

The turbo-machine operates as a compressor or a turbine with a working fluid (A) consisting of gas turbine exhaust gases or steam. The compressor or turbine blades or the flow channel wall have a hydrophobic micro-roughened surface structure (47) that resists wetting by droplets of water (49) or the working fluid. Each turbine blade has a crystalline layer (45) with a surface (39) which can be subjected to the action of a working fluid. Drops of water may roll along the surface and collect particles of dirt (51A-C) sticking to the surface.

Data supplied from the *esp@cenet* database - Worldwide